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RAW SEQUENCE LISTING

DATE: 09/27/2002

PATENT APPLICATION: US/09/155,708B

TIME: 14:23:50

Input Set : A:\MUR-003.ST25.txt

Output Set: N:\CRF4\09272002\I155708B.raw

Raw Seq
Ceston

pp 6-7

3 <110> APPLICANT: Farrar, Jane
4 Humphries, Peter
5 Kenna, Paul
7 <120> TITLE OF INVENTION: Genetic Suppression and Replacement
9 <130> FILE REFERENCE: MUR-003
11 <140> CURRENT APPLICATION NUMBER: US 09/155,708B
12 <141> CURRENT FILING DATE: 1999-04-05
14 <150> PRIOR APPLICATION NUMBER: PCT/GB97/00929
15 <151> PRIOR FILING DATE: 1997-04-02
17 <160> NUMBER OF SEQ ID NOS: 28
19 <170> SOFTWARE: PatentIn version 3.0
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 617
23 <212> TYPE: DNA
24 <213> ORGANISM: mammalian
26 <220> FEATURE:
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28 <222> LOCATION: (1)..(617)
29 <223> OTHER INFORMATION: any
31 <400> SEQUENCE: 1
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W--> 34 ttaatacgac tcactatang gagaccgaag cttagagtca tccagctgga gccctgagt 120
36 gctgagctca ggccttcgca gcattcttgg gtgggagcag ccacgggtca gccacaagg 180
38 ccacagccat gaatggcaca gaaggcccta acttctacgt gcccttctcc aatgcgacgg 240
40 gtgtggtacg cagccccttc gagtaccac agtactacct ggetgagcca tggcagttct 300
42 ccatgctggc cgcctacatg tttctgctga tcgtgctggg cttccccatc aacttctca 360
44 cgtctacgt caccgtccag cacaagaagc tgcgcacgcc tctcaactac atcctggctc 420
W--> 46 aacctagccg tggctgaact cttcatggtc ctangtggct tcaccagcac ctctacanct 480
W--> 48 ctctgcatgg atactcgtct tggggccac aggatgcaat tgganggctc tttgcacctg 540
W--> 50 gngggaaatt gcctgtggtc ctngtggten ggnaccaac gtactggtng tgtntanccc 600
52 agaacaactc cgtccccc
54 <210> SEQ ID NO: 2
55 <211> LENGTH: 639
56 <212> TYPE: DNA
57 <213> ORGANISM: mammalian
59 <220> FEATURE:
W--> 60 <221> NAME/KEY: n
61 <222> LOCATION: (1)..(639)
62 <223> OTHER INFORMATION: any
64 <220> FEATURE:
65 <221> NAME/KEY: misc_feature
66 <223> OTHER INFORMATION: C to G change at position 271
68 <400> SEQUENCE: 2

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W--> 69 ggnnnnttgg gtcgcgcatt naagaactca nggncccgcga gcattcttgg gtgggagcag      60
W--> 71 ctacgggtca gccacaaggg ccacagccat gaatggcaca gaangcccta acttctacgt      120
      73 gcccttctcc aatgcgacgg gtgtggtacg cagcccttc gagtaccac agtactacct      180
      75 ggctgagcca tggcagttct ccatgctggc cgcctacatg tttctgctga tcgtgctggg      240
      77 ctcccccatc aacttcctca cgcctacgt gaccgtccag cacaagaagc tgcgcacgcc      300
W--> 79 tctcaactac atctctgctca acctanccgt gngtgaactc ttcattgttc taggtggctt      360
W--> 81 caccancaac ctctanacct ctctgcatgg anacttcntc ttccggccca caggatgcaa      420
W--> 83 tttggaaggn ttctttaac acccgggggg ggaaaattgc ctgtggctct tgggtggctcg      480
W--> 85 gncancnaac ggtacttgtg gtntttaanc cataaacaat tccgcttcgg gaaaaacatg      540
W--> 87 ccancntggg gtttcttca ctnggttang ggcnggctgc cccacccca atccnggtn      600
W--> 89 gtcaantaat cccaagggn nantgncntt ttaaacaaa      639
      91 <210> SEQ ID NO: 3
      92 <211> LENGTH: 686
      93 <212> TYPE: DNA
      94 <213> ORGANISM: mammalian
      96 <220> FEATURE:
W--> 97 <221> NAME/KEY: n
      98 <222> LOCATION: (1)..(686)
      99 <223> OTHER INFORMATION: any
     101 <220> FEATURE:
     102 <221> NAME/KEY: misc_feature
     103 <223> OTHER INFORMATION: CCC to CTC change at 216-218
     105 <400> SEQUENCE: 3
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      108 ggcttactgg cttatcgaaa ttaatacgac tactatagg gagacccaag cttccggaaa      120
      110 gcctgagctc agccacaagg gccacagcca tgaatggcac agaaagccct aacttctacg      180
      112 tgcccttctc caatgcgacg ggtgtggtac gcagcctctt cgagtacca cagtactacc      240
      114 tggtgagacc atggcagttc tccatgctgg ccgcctacat gtttctgctg atcgtgctgg      300
      116 gcttccccat caacttcctc acgctctacg tcaccgtcca gcacaagaag ctgcgcacgc      360
W--> 118 ctctcaacta cactctgctc aaactanccg tggtgaactc cttcatggtc ctangtggct      420
W--> 120 tcaccancac cctctacacc tctctgcatg gatacttcgt cttccgggcc acaggatgca      480
W--> 122 atttggaagg cttcttgca ncttggnncg gaaaattgcc tgtngtctcg gtggctctgg      540
W--> 124 ccatcaacng tacttgttgt ntnttaccga tnaacaattc cgtccgggga aaacatgcac      600
W--> 126 atgggnttgc ctactnnggt ctggggcngg cccccaccc ccccccggt ggtcanttat      660
W--> 128 cccanggcgn aatgcctttn annaaa      686
      130 <210> SEQ ID NO: 4
      131 <211> LENGTH: 787
      132 <212> TYPE: DNA
      133 <213> ORGANISM: mammalian
      135 <220> FEATURE:
W--> 136 <221> NAME/KEY: n
      137 <222> LOCATION: (1)..(787)
      138 <223> OTHER INFORMATION: any
     140 <400> SEQUENCE: 4
W--> 141 cngcncgttg aaatataagc agaccctctg gntaactana ataaccactg cttactggct      60
W--> 143 tatcgaaatt aatacgactc actatangga gaccaagctt ggctggctcg atgagtcctg      120
W--> 145 gaggacgaaa cgtagagtct anagggccct attctatagt gtcacctaaa tgctaganct      180
      147 cgtgatcag cctcgactgt gccttctagt tgccagccat ctgtgtttg cccctcccc      240
W--> 149 gtgccttctc tgancctgga aggtgccact cccactgtcc tttoctaata aatgagnaa      300

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W--> 151 ttgcntctca ttgtctgagt agtgtcatcc aatctggggg tgggtggggc agnacacnag 360
W--> 153 gggaagatgg gaaaacatac aggcattgctg gggangccgt ggntctatgn ctcngaggcg 420
W--> 155 aaaaaacact ggggnctagg ggtacccac cccctgtacg gccataacnc gnggtttgtg 480
W--> 157 gtaccacta acgtanntgc accctaccg ncttnttct cctcttncca ttccgggttc 540
W--> 159 cctcaccnaa cgggccttng tcatacttng gnccacaaa tanagtagtc ttgccccca 600
W--> 161 aagtcctna tgacctntaa gaccttcann anccccctt ntttnaaana nccnnnnnnn 660
W--> 163 nnnnnnnnc cngnaaaan aacaactaat tttgggaacc ccccccnaa aacctttcc 720
W--> 165 ntnttcccc natttaant tnnntnccc cccccccc ccccnnttt tnncccccn 780
W--> 167 nnannng
169 <210> SEQ ID NO: 5
170 <211> LENGTH: 665
171 <212> TYPE: DNA
172 <213> ORGANISM: mammalian
174 <220> FEATURE:
W--> 175 <221> NAME/KEY: n
176 <222> LOCATION: (1)..(665)
177 <223> OTHER INFORMATION: any
179 <400> SEQUENCE: 5
W--> 180 nccccgccc ntttnaaana anccnagcct ctggcnaact ananaaccac tgcttactgg 60
W--> 182 cttatcnaaa ttaatacgac tcactatagg gagacccaag ctttactga actgatgagt 120
W--> 184 ccgtgaggac gaaaggctgc tctananggc cctattctat antgtcacct aaatgctaga 180
186 gctcgctgat cagcctcgac tgtgccttct aattgccagc catctgttgt ttgccctcc 240
188 ccctgacctt ccttgacctt ggaagggtgc actccactg tcctttccta ataaaatgaa 300
W--> 190 gatnttncat cncattgtct gagtaagtgt cattctattc tgggggggtgg ggtggggcac 360
W--> 192 gacancaang gggaagattg ggaaaaaata ncaggcntgc tggggatncc gtgggctcta 420
W--> 194 tngcttctga agcggaaaaa acaactgggg ctctangggg tatccccccc cccctgtaac 480
W--> 196 gngcattaaa cncgggggtg ttgtggttac cccaacttaa cgctancttg caacgccna 540
W--> 198 acgccccncc ttctcttctt ccttctctt ncccacttcc cgggttccn tcaaccnna 600
W--> 200 tcggggcccc ttaggtccaa ttatgcttcg gcccncnccn aaactaatag gtnnggttctt 660
W--> 202 tngcc
205 <210> SEQ ID NO: 6
206 <211> LENGTH: 624
207 <212> TYPE: DNA
208 <213> ORGANISM: mammalian
210 <220> FEATURE:
W--> 211 <221> NAME/KEY: n
212 <222> LOCATION: (1)..(624)
213 <223> OTHER INFORMATION: any
215 <400> SEQUENCE: 6
W--> 216 nnnncttncat tanngcttgg taccganctc ggatccacta gtnaacggcc gccagtgtgc 60
W--> 218 tggaaattcc cagaggnaact ctggggcaga caagatgaga caccctttcc tttctttacc 120
220 taagggcctc caccgatgt caccctggcc cctctgcaag ccaattaggc cccggtggca 180
222 gcagtgggat tagcgtagt atgatattct gcggatgctg aatcagcctc tggcttaggg 240
224 agagaaggct actttataag ggtctggggg ggtcagtgct ctggagttgc gctgtgggag 300
W--> 226 ccgtcagtggt ctgagctcgc caagcagcct tgggtctctgt ctacgaaaan cccgtggggc 360
W--> 228 agcctcnana accgcagcca tgaacggcac agaaggcccc aatttttatg tgcccttctc 420
W--> 230 caacgtcaca ngcgtggtgc ggaacccctt cnancanccg cagtactacc tggcggaacc 480
W--> 232 atggcagttc tccatgctgg cancgtagat gtcctgctca tcgtgctggg ntccccatca 540
W--> 234 actcctcagc ctctagttca ccgtaaanna naaaaaactg cgcaacccct caactaaate 600

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236 ctgctcaatt gggcgtgggt gaac 624
238 <210> SEQ ID NO: 7
239 <211> LENGTH: 630
240 <212> TYPE: DNA
241 <213> ORGANISM: mammalian
243 <220> FEATURE:
W--> 244 <221> NAME/KEY: n
245 <222> LOCATION: (1)..(630)
246 <223> OTHER INFORMATION: any
248 <220> FEATURE:
249 <221> NAME/KEY: misc_feature
250 <223> OTHER INFORMATION: TTT to TCT transversion at position 189-191
252 <400> SEQUENCE: 7
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W--> 255 gtgcctggag ttgcgctgtg ggacccgtca ntggctgagc tcgccaagca gccttgggtct 120
257 /ctgtctacga agagcccgtg gggcagcctc gagagccgca gccatgaacg gcacagaggg 180
W--> 259 ccccaatttc tatgtgccct tctccaacgt cacaggcggtg gtgcggagcc ccttcgancn 240
261 tccgcagtag tacctggcgg aaccatggca gttctccatg ctggcagcgt acatgttcct 300
263 gtcacatcgt ctgggcttcc ccatcaactt cctcacgctc tacgtcaccg tacagcacia 360
W--> 265 gaagctgcgc acacccctc aactacatcc tggctcaact tgggcccgtg ggnttggaaac 420
W--> 267 ctctctccca ttgggtcctt cccggaangg antncaccaa ccacccctct aacacatcaa 480
W--> 269 ctcccatggg ctacttcgtt cttttggggc ccncaggtg ttaatctcga agggcttctt 540
W--> 271 tgccacacct tggaagtga atcncctgt ggttccctgg tggctntggc cattaacgct 600
273 actgtggtc ctgcaaccca ataacaattc 630
276 <210> SEQ ID NO: 8
277 <211> LENGTH: 649
278 <212> TYPE: DNA
279 <213> ORGANISM: mammalian
281 <220> FEATURE:
W--> 282 <221> NAME/KEY: n
283 <222> LOCATION: (1)..(649)
284 <223> OTHER INFORMATION: any
286 <400> SEQUENCE: 8
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W--> 289 ccaactgctta ctggcttanc naaattaata cgactcacta tagggagacc caagcttggc 120
291 acatctgatg agtcgctgag gacgaaaaaa ttggtctaca gggccctatt ctataatgtc 180
W--> 293 acctaaatgc tanagctcgc tgatcatcct cnaactgtgc ttctacttgc cagccntctn 240
295 ttgtttgccc ctcccccggt ccttccttga ccctggaagg tgccactccc actgtccttt 300
297 cctaataaaa tgaggaaatt gcatcgcatg gtctgagtaa gtgtcattct attctggggg 360
W--> 299 gtgggggtggg gcaggacnnc aaagggggaag attggggaat acaatancca aggancnctc 420
W--> 301 ccccnnggga attgctggatt nggctctntc gcttccttaa ggcngaaana aacaactnng 480
W--> 303 gcgctnccgg gtttccccn ccnccctnt tagcngcgca ttantcgccg cgggtgttgt 540
W--> 305 tgttactccc cacctnaacg ctacanttgc cagcgcccaa cgccccccct tncntttctt 600
W--> 307 cctctcttcc tncacttcc cgggtttcc ccnccaancc naaatcnng 649
309 <210> SEQ ID NO: 9
310 <211> LENGTH: 681
311 <212> TYPE: DNA
312 <213> ORGANISM: mammalian
314 <220> FEATURE:

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      316 <222> LOCATION: (1)..(681)
      317 <223> OTHER INFORMATION: any
      319 <400> SEQUENCE: 9
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      322 ctgcttactg gcttatogaa attaatacga ctactatag ggagacccaa gcttggtacc 120
W--> 324 gagctcngat ccactagtaa cggccgccag tgtgctggaa ttcttcagcg cccacgacca 180
      326 gtgactatcc cctgctcaag ctgtgattcc gagaccctg ccaccactac tgcattcacg 240
W--> 328 ggggatccca ngctaattggg actcgacatg gggtgcccc acggcanctc cctacanctt 300
W--> 330 gggccanctn cacttttccc aaagncctaa atctccgcct ctcggctcnt taangtngg 360
W--> 332 ggtgggganc tgtgctgtgg gaacaaccc agaananact tgggcagcat ggngctactg 420
W--> 334 aaagtncaat ttgaacagaa naacgggtcc antttggccc aaggnncnng ntcctaaant 480
W--> 336 ggttctcctt ntttggtngn ntcnncnctt tcncctngg aatgttcctg aaaaattnaa 540
W--> 338 cnccaaaaaa gaacaaattg aaaaatantt ctnaaaaccc tttgttncc cccccccna 600
W--> 340 aaagggagg ggnggnncc ttttnttcc cccccgggg ggggaaaatt tnnnnnaanc 660
W--> 342 ccccccccc cttttttt a 681
      345 <210> SEQ ID NO: 10
      346 <211> LENGTH: 612
      347 <212> TYPE: DNA
      348 <213> ORGANISM: mammalian
      350 <220> FEATURE:
W--> 351 <221> NAME/KEY: n
      352 <222> LOCATION: (1)..(612)
      353 <223> OTHER INFORMATION: any
      355 <400> SEQUENCE: 10
W--> 356 ttatacnaca cactatangg agaccaagct tggtagcgag ctcggtacca ctagtaacgg 60
W--> 358 ccgccagtgt gctggaattc ttcancgccc aggaccagga ctatccctg ctcaagctgt 120
W--> 360 gattccgaga ccctgccac cactactgca ttcacggggg atcccaggct agtgggacnc 180
      362 gacatgggta tccccaggg cagctcccta cagcttggg cactctgact tttcccaagg 240
W--> 364 ccctaagtct ccgcctctgg gctcggttan gtntgggggt ggagctgtgc tgtgggaaac 300
W--> 366 aaccgggact acacttggca agcatggcgc tgcgaaaagt caagtttgaa cagaaaaaan 360
W--> 368 gggtaagtt ggccaaggg ctctggtcga gggaaactgg gttccccnc nngtttngg 420
W--> 370 tttggtgca tcanctncca aaaaannnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
W--> 372 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
W--> 374 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600
W--> 376 nnnnnnnnnn nn 612
      378 <210> SEQ ID NO: 11
      379 <211> LENGTH: 20
      380 <212> TYPE: DNA
      381 <213> ORGANISM: Artificial sequence
      383 <220> FEATURE:
      384 <221> NAME/KEY: misc_feature
      385 <223> OTHER INFORMATION: Forward mutation primer
      387 <400> SEQUENCE: 11
      388 catggcgctg ctgaaagtca 20
      391 <210> SEQ ID NO: 12
      392 <211> LENGTH: 20
      393 <212> TYPE: DNA
      394 <213> ORGANISM: Artificial sequence

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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 Seq#:2; N Pos. 3,4,5,6,21,31,34,104,326,333,366,376,392,398,430,482,485,487
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 Seq#:3; N Pos. 1,2,3,10,19,31,49,387,414,427,501,508,524,549,561,563,572
 Seq#:3; N Pos. 606,617,628,632,656,665,670,680,682,683
 Seq#:4; N Pos. 2,5,32,39,87,142,178,254,298,305,353,358,395,403,410,414,435
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 Seq#:5; N Pos. 1,2,11,15,19,22,25,36,42,44,67,145,147,162,304,307,312,365
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Seq#:14; N Pos. 618,622,623,625,626,627,628,631,633,634,635,636,637,638,640
Seq#:14; N Pos. 641,642,644,645,646,647,648,649,650,651,652,654,657,658,664
Seq#:14; N Pos. 665,666,667,669,670,671,672,673,674,675,677,679
Seq#:15; N Pos. 1,2,6,14,25,27,44,50,53,54,97,153,293,311,312,341,368,373
Seq#:15; N Pos. 400,430,433,436,439,446,456,469,474,475,479,480,487,494,496
Seq#:15; N Pos. 501,505,521,522,525,527,532,534,537,545,546,551,552,553,559
Seq#:15; N Pos. 584,586,590,595,604,609,626,630,633,635,637,644,645,646,647
Seq#:15; N Pos. 650,653,657,659,661,666,669,671,673,674,678
Seq#:16; N Pos. 1,4,7,15,25,33,34,41,122,153,251,308,311,346,366,416,459
Seq#:16; N Pos. 497,563,567,600,616,631,641,682,683,685,691,695,698,699,700
Seq#:16; N Pos. 701,702,703,704,705,706,707,708,709,710,711,712,713,714,715
Seq#:16; N Pos. 716,717,718,719,732,748,750,751,755,757,768,773,776,783,787
Seq#:16; N Pos. 792,795,802,803,804,805
Seq#:17; N Pos. 13,54,67,95,140,183,246,266,296,302,343,356,402,435,444,518
Seq#:17; N Pos. 538,541,548,554,560,565,589,590,598,611,613,623,627,628,629
Seq#:17; N Pos. 630,631,632,633,634,635,636,637,641,644,646,653,659,662,664
Seq#:17; N Pos. 667,683,686,688,700,720,741,742,754,758,760,762,763,768,777
Seq#:17; N Pos. 778,779,783,790
Seq#:18; N Pos. 1,7,8,12,15,20,34,35,44,46,74,301,327,361,366,386,459,473
Seq#:18; N Pos. 495,518,590,615,640,642,654,669